### 1034123-000167 SEQUENCE LISTING

```
The Regents of the University of California Martin, Paul Taylor
<110>
<120>
       AMYLOID-SPECIFIC PEPTIDES AND USES THEREOF
<130>
       1034123-000167
<140>
       US 10/551,619
<141>
        2005-09-30
<150>
        US 60/461,168
        2003-04-07
<151>
        PCT/US04/10939
2004-04-07
<150>
<151>
<160>
        33
<170>
        PatentIn version 3.3
<210>
        10
<211>
<212>
<213>
        PRT
        Artificial sequence
<220>
<223>
        artificial peptide sequence
<220>
<221>
       X
(1)..(1)
X = W OR F
<222>
<223>
<220>
<221>
<222>
        X
(2)..(6)
<223>
        \dot{X} = any amino acid having two positively charged residues and no
        negatively charged residues
<220>
<221>
<222>
        (7)..(7)
X = W OR F
<223>
<220>
<221>
<222>
        (8)..(9)
<223>
        X = Any amino acid
<220>
<221>
        (10)..(10)
<222>
<223>
        X = W OR F
<400> 1
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
```

```
1034123-000167
```

```
<210> 2
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 2
Lys Thr Glu Ala
      3
20
<210>
<211>
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400>
Pro Gly Arg Ser Pro Phe Thr Gly Lys Leu Phe Asn Gln Glu Phe 10 10 15
Ser Gln Asp Gln
<210>
<211>
<212>
       26
       PRT
<213> Artificial sequence
<220>
<223>
      Artificial peptide sequence
<400> 4
Ala Glu Cys Asp Trp Gly Lys Gly Gly Arg Trp Arg Leu Trp Pro Gly
10 15
Ala Ser Gly Lys Thr Glu Ala Cys Gly Pro
20 25
<210>
<211>
      5
22
<212> PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 5
```

```
Cys Asp Trp Gly Lys Gly Gly Arg Trp Arg Leu Trp Pro Gly Ala Ser 10 15
Gly Lys Thr Glu Ala Cys
20
<210> 6
<211> 22
<212> PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 6
Cys Pro Gly Arg Ser Pro Phe Thr Gly Lys Lys Leu Phe Asn Gln Glu
1 10 15
Phe Ser Gln Asp Gln Cys
<210>
<220>
<223> Artificial peptide sequence
<400> 7
Leu Gly Ser Gly Arg Ile Gly Asp Gly Trp Ser Asp Gly Gly Leu Ala 10 15
Arg Arg Leu Lys
20
<210>
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 8
Asp Gly Gly Gly Ala Gly Arg Trp Thr Thr Lys Asp Arg Ser Ala
1 10 15
Ala Lys Thr Glu
```

```
1034123-000167
```

```
<210>
<211>
<212>
       20
       PRT
<213>
      Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 9
Val Asp Asp Gly Ala Gln Gly Lys Arg Trp Gly Gly Met Gly Leu Gly 10 15
Lys Gly Arg Arg
20
<210>
       10
<211>
<212>
       20
       PRT
<213>
      Artificial sequence
<220>
<223>
      Artificial peptide sequence
<400> 10
Ser Gly Ser Gly Val Gly Leu Arg Met Ala Ser Gln Arg His Glu Gly 10 15
Arg Lys Val Tyr
<210>
       11
<211>
       20
<212>
       PRT
<213> Artificial sequence
<220>
<223>
      Artificial peptide sequence
<400> 11
Gln Leu Pro Gln Asn Gly Gly Pro Ala Trp Phe Thr Arg Lys Ala Gly
10 15
Gln Gly Gly Arg
20
       12
20
<210>
<211>
<212>
      PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400>
       12
```

```
Leu Gly Tyr Ala Gly Gly Gln Gly Met Val Glu Gly Ser Phe Trp 10 15
Pro Thr Ser Trp
<210>
      13
<211>
       20
<212>
      PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 13
Gly Leu Arg Gly Met Glu Gly Arg Gly Tyr Pro Lys Asp Arg Asp 10 15
Arg Asn Leu Glu
<210>
       14
<211>
<212>
       20
      PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 14
Leu Ile Gly Gly Asn Lys Ala Gly Arg Gly Ala Trp Gly Val Val Ala
1 5 10 15
Ser Ser Gly Arg
20
<210>
       15
<211>
<212>
       20
      PRT
<213> Artificial sequence
<220>
<223>
      Artficial peptide sequence
<400> 15
Glu Leu Glu Ser Arg Gly Gly Leu Gly Tyr Ala Trp Arg Gly Ser Ala
1 10 15
Ser Thr Met Asp 20
```

```
1034123-000167
<210>
        16
<211>
        20
<212>
        PRT
        Artificial sequence
<213>
<220>
<223>
        Artificial peptide sequence
<400> 16
Lys Gly Glu Thr Gly Asn Gly Gly Arg Ala Lys Ala Gly Thr Val Asp
1 10 15
Leu Ile Arg Arg
20
<210>
        17
        33
<211>
<212>
        PRT
        Artificial sequence
<213>
<220>
<223>
        Artificial peptide sequence
<220>
<221>
<222>
         (1)..(1)
        \dot{x} = any amino acid with at least one cysteine residue having the formula (Xaa)n, where Xaa is any amino acid and n is an integer from 1 to 20
<223>
<220>
<221>
<222>
         (2)..(2)
<223>
        X = W or F
<220>
<221>
<222>
         (3)..(17)
<223>
        X = any positively charged amino acid
<220>
<221>
        X
(18)..(18)
<222>
<223>
        X = W or F
<220>
<221>
<222>
         (19)..(31)
<223>
        X = any amino acid
<220>
<221>
<222>
        (32)..(32)
<223>
        X = W \text{ or } F
```

X = any amino acid with at least one cysteine residue having the

Page 6

<220> <221> <222>

<223>

(33)..(33)

```
formula (Xaa)n, where Xaa is any amino acid and n is an integer
      from 1 to 20
<400> 17
xaa
<210>
      18
      32
<211>
<212>
      PRT
<213>
      Artificial sequence
<220>
<223>
      Artificial peptide sequence
<220>
<221>
<222>
      (1)..(1)
      X = any amino acid with at least one cysteine residue having the formula (Xaa)n, where Xaa is any amino acid and n is an integer
<223>
<220>
<221>
<222>
      X
(2)..(2)
<223>
      X = W or F
<220>
<221>
<222>
      (3)..(17)
<223>
      X = any positively charged amino acid
<220>
<221>
<222>
<223>
      (18)..(18)
      X = W \text{ or } F
<220>
<221>
<222>
      X
(19)..(31)
     x = any amino acid
<223>
<220>
<221>
<222>
      (32)..(32)
<223>
      X = W \text{ or } F
<400>
```

25 <210> 19 <211> <212> 32 **PRT** <213> Artificial sequence <220> Artificial peptide sequence <223> <220> <221> <222> (1)..(1)<223> X = W or F<220> <221> <222> (2)..(16) <223> X = Any positively charged amino acid <220> <221> (17)..(17) <222> <223> X = W or F<220> <221> <222> (18)..(30)<223> X = any amino acid<220> <221> <222> (31)..(31)<223> X = W or F<220> <221> <222> (32)..(32)X = any amino acid with at least one cysteine residue having the formula (Xaa)n, where Xaa is any amino acid and n is an integer <223> from 1 to 20 <400> 19 <210> 20 <211> 31 <212> PRT <213> Artificial sequence <220> <223> Artificial peptide sequence

```
<220>
<221>
<222>
      (1)..(1)
      X = W \text{ or } F
<223>
<220>
<221>
<222>
       (2)..(16)
<223>
      X = Any positively charged amino acid
<220>
<221>
      (17)..(17)
<222>
<223>
      X = W \text{ or } F
<220>
<221>
<222>
      (18)..(30)
<223>
      X = any amino acid
<220>
<221>
<222>
<223>
       (31)..(31)
      X = W \text{ or } F
<400> 20
10
<210>
      21
<211>
      41
<212>
      PRT
<213>
      Artificial sequence
<220>
      Artificial peptide sequence
<223>
<220>
<221>
<222>
       (1)..(1)
<223>
      X = any amino acid with at least one cysteine residue having the
       formula (Xaa)n, where Xaa is any amino acid and n is an integer
       from 1 to 20
<220>
<221>
      (2)..(2)
<222>
<223>
      X = W \text{ or } F
<220>
<221>
<222>
       (3)..(17)
<223>
      X = Any positively charged amino acid
```

```
1034123-000167
```

```
<220>
<221>
<222>
      (18)..(18)
<223>
      X = W \text{ or } F
<220>
<221>
<222>
      (19)..(39)
<223>
      X = any amino acid
<220>
<221>
<222>
      (40)..(40)
<223>
      X = W \text{ or } F
<220>
<221>
<222>
      (41)..(41)
<223>
      X = any amino acid with at least one cysteine residue having the
      formula (Xaa)n, where Xaa is any amino acid and n is an integer
      from 1 to 20
<400>
      21
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
<210>
      22
      40
<211>
<212>
      PRT
<213>
      Artificial sequence
<220>
<223>
      Artificial peptide sequence
<220>
<221>
<222>
      (1)..(1)
      X = any amino acid with at least one cysteine residue having the
<223>
      formula (Xaa)n, where Xaa is any amino acid and n is an integer
      from 1 to 20
<220>
<221>
<222>
      (2)..(2)
<223>
      X = W \text{ or } F
<220>
<221>
<222>
      (3)..(17)
      X = any positively charged amino acid
<223>
<220>
```

```
1034123-000167
```

```
<221> X
<222> (18)..(18)
<223>
      X = W \text{ or } F
<220>
<221>
      (19)..(39)
<222>
<223>
      X = any amino acid
<220>
<221>
<222>
      (40)..(40)
      X = W or F
<223>
<400> 22
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Aaa 35 40
<210>
      23
<211>
      40
<212>
      PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<220>
<221>
<222>
      (1)..(1)
<223>
      X = W \text{ or } F
<220>
<221>
      (2)..(16)
<222>
<223>
      X = any positively charged amino acid
<220>
<221>
<222>
      X
(17)..(17)
      X = W \text{ or } F
<223>
<220>
<221>
<222>
      (18)..(38)
      X = any amino acid
<220>
<221>
      (39)..(39)
X = W or F
<222>
<223>
<220>
```

```
<221>
     X
(40)..(40)
<222>
     \dot{X} = any amino acid with at least one cysteine residue having the formula (Xaa)n, where Xaa is any amino acid and n is an integer
<400>
     23
<210>
     24
<211>
     39
<212>
     PRT
     Artificial sequence
<213>
<220>
<223>
     Artificial peptide sequence
<220>
<221>
<222>
     (1)..(1)
<223>
     X = W \text{ or } F
<220>
<221>
<222>
     (2)..(16)
<223>
     X = any positively charged amino acid
<220>
<221>
<222>
     (17)..(17)
<223>
     X = W \text{ or } F
<220>
<221>
<222>
     (18)..(38)
     X = any amino acid
<223>
<220>
<221>
<222>
     X
(39)..(39)
X = W or F
<223>
<400> 24
```

```
Xaa Xaa Xaa Xaa Xaa Xaa
<210> 25
<211> 5
<212> PRT
<213>
       Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 25
Ser Arg Lys Asn Gln
<210> 26
<211> 9
<212> PRT
<213> Artificial sequence
<220>
<223> Artificial peptide sequence
<400> 26
His Cys Ser Gln Asn Glu Asp Gly Ala
1 5
<210> 27
<211> 9
        27
<212> PRT
<213> Artificial sequence
<223> Artificial peptide sequence
<400> 27
Tyr Ser Thr Thr Ser Trp Tyr Tyr Trp 5
<210> 28
<211> 40
<212> PRT
<213> Artificial sequence
<220>
<223>
       Artificial peptide sequence
<400>
Asp Ala Glu Phe Lys His Asp Ser Gly Thr Glu Val His His Gln Lys 1 \hspace{1cm} 10 \hspace{1cm} 15
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile 20 \hspace{1cm} 25 \hspace{1cm} 30
                                             Page 13
```

```
Gly Leu Met Val Gly Gly Val Val
       29
20
<210>
<211>
<212>
      DNA
      Artificial sequence
<213>
<220>
<223>
      primer
<400>
       29
gtttgtcgtc tttccagacg
                                                                         20
       30
<210>
<211>
       105
<212>
      DNA
<213>
      Artificial sequence
<220>
<223>
      Artificial nucleotide cloning sequence
<400>
       30
cggggtacct gcagaatgcg attgggggaa ggggggtcgg tggcggttgt ggccgggtgc
                                                                         60
gtcggggaag acggaggcgt gcggcccgcc gtattagtct agagc
                                                                        105
<210>
       31
<211>
<212>
       105
       DNA
<213>
      Artificial sequence
<220>
<223>
      Artificial nucleotide cloning sequence
<400>
gctctagact aatacggcgg gccgcacgcc tccgtcttcc ccgacgcacc cggccacaac
                                                                         60
cgccaccgac ccccttccc ccaatcgcat tctgcaggta ccccg
                                                                        105
<210>
       32
<211>
<212>
       PRT
      Artificial sequence
<220>
<223>
      Artificial peptide sequence
<400>
       32
Cys Gly Pro Pro Tyr
<210>
       33
<211>
       11
<212>
       PRT
```